

1 42. (New) An electronic device having a device type that is one of a plurality  
2 of device types, the device comprising:

3 (a) non-volatile memory means for storing operational data utilized during  
4 operation of the electronic device;

5 (b) receiver means for receiving a data object externally from the electronic  
6 device, the data object including data associated with a plurality of device types;

7 (c) installation means for installing in the memory means only data from the  
8 data object that is associated with the device type of the electronic device and retrieving  
9 from the data object an installation routine, wherein the installation routine is provided  
10 with pointers to utilities resident on the electronic device for executing the installation  
11 routine; and

12 (d) download processing means having a download processing routing, the  
13 download processing routine executing the installation routine to store into the non-  
14 volatile memory means of the electronic device only the data associated with the  
15 indicated device types.

1 43. (New) The electronic device of claim 42, wherein the data in the data  
2 object is selected from the group consisting of program code, device parameters, and  
3 combinations thereof.

1 44. (New) The electronic device of claim 42, wherein the plurality of device  
2 types represent different electronic products having different functionality but which  
3 share an identical hardware platform.

- 1 45. (New) The electronic device of claim 42, wherein the electronic device is  
2 a disk drive including the data buffer for temporarily storing the data object, wherein the  
3 installation means comprises a controller.

IBM CORPORATION  
JAN 1998  
ALG 501.38USC1  
Amendment

1           46.   (New) A disk drive, comprising:

2           (a)   a data buffer for receiving a download entity, the download entity including  
3   data in a device type table associated with a device type for each of a plurality of types  
4   of disk drives;

5           (b)   a non-volatile memory for storing operational data associated with the disk  
6   drive; and

7           (c)   a controller, coupled to the data buffer, the controller

8               (1) determining a type for the disk drive,

9               (2) retrieving from the download entity only the data associated with the  
10   determined type for the disk drive, the retrieving further comprising:

11               (i)   retrieving from the download entity an installation routine,  
12   wherein the installation routine is provided with pointers to utilities resident on the  
13   electronic device for executing the installation routine; and

14               (ii)   executing the installation routine by the electronic device to  
15   build a data image in the data image block of the download entity from the data in the  
16   device type table that is associated with the determined type for the disk drive and to  
17   store into non-volatile memory of the electronic device only the data associated with the  
18   indicated device type;

19               wherein retrieving and executing are performed at least in part by a  
20   download processing routine resident in the electronic device,

21               (3) storing the data associated with the determined type for the disk drive  
22   in the non-volatile memory, and

23               (4) resetting the data buffer to clear the data buffer.

1           47.   (New) The disk drive of claim 46, wherein the data in the download entity  
2   is selected from the group consisting of program code, device parameters, and  
3   combinations thereof.

1           48.   (New) The disk drive of claim 46, wherein the disk drive further comprises  
2   a second controller, coupled to the first controller, the second controller having a  
3   random access memory for storing servo parameters from the download entity that  
4   characterize the disk drive.

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1 49. (New) An apparatus, comprising:

2 (a) an array of direct access storage devices, each of which having a device  
3 type and a non-volatile memory for storing operational data utilized in the operation  
4 thereof; and

5 (b) an array controller controlling the array of direct access storage devices,  
6 the array controller providing a generic download entity to a data buffer of a plurality of  
7 the direct access storage devices to update the memories thereof, the generic  
8 download entity including in a device type table operational data associated with a  
9 device type for each of a plurality of device types;

10 wherein each direct access storage device having a device controller, the device  
11 controller stores in the non-volatile memory of each of the plurality of direct access  
12 storage devices only operational data from the download entity that is associated with a  
13 respective device type for a direct access storage device and discards the operational  
14 data not associated with a respective device type for a direct access storage device,  
15 the device controller storing only operational data from the download entity that is  
16 associated with a respective device type for a direct access storage device by  
17 determining a type for the direct access storage device, retrieving from the generic  
18 download entity an installation routine, wherein the installation routine is provided with  
19 pointers to utilities for executing the installation routine, the device controller executing  
20 the installation routine to build a data image in the data image block of the download  
21 entity from the data in the device type table that is associated with the determined type  
22 for the direct access storage device and to store into non-volatile memory of the direct  
23 access storage device only the data associated with the indicated device type, wherein

24 retrieving and executing are performed at least in part by a download processing  
25 routine resident in the direct access storage device and wherein the device controller  
26 resets the data buffer to clear the data buffer.

1 50. (New) The apparatus of claim 49, wherein the operational data in the  
2 download entity is selected from the group consisting of program code, device  
3 parameters, and combinations thereof.

1 51. (New) The apparatus of claim 49, wherein the download entity includes an  
2 installation routine, wherein each of the plurality of direct access storage devices  
3 executes the installation routine to store in the non-volatile memory only the operational  
4 data in the data buffer that is associated with its respective device type.

1           52.   (New) A download entity for downloading to an electronic device having a  
2 device type that is one of a plurality of device types, the download entity comprising:

3           (a)   a block of data, the data block having portions in a device type table  
4 associated with each of the plurality of device types; and

5           (b)   an installation routine, executed by the electronic device, the installation  
6 routine retrieving only the portion of the data in the download entity that is associated  
7 with the device type of the electronic device and discarding the data in the download  
8 entity not associated with the device type of the electronic device, wherein the

9 installation routine being provided with pointers to utilities resident on the electronic  
10 device for executing the installation routine, wherein retrieving and executing are  
11 performed at least in part by a download processing routine resident in the electronic  
12 device, the download processing routine executing the installation routine to build a  
13 data image from data in the device type table that is associated with a determined type  
14 for the electronic device and to store into non-volatile memory of the electronic device  
15 only the data associated with the indicated device type.

1           53.   (New) A program storage device readable by an electronic device, the  
2 program storage device tangibly embodying the download entity of claim 52.